

# MATERIAL SAFETY DATA SHEET

Doc. ID: N-4003-1 Rev. 004

Revised (month/day/year) 08/18/2012

## 1 Company and Product Identification

**Product Names-** ALINE PCR Normalizer and ALINE DNA Normalizer™ -v2

**Part Numbers-** N-4003-1 and N-4001

**Product Use** For Research Use Only. See product literature for details.

**Manufacturer / Supplier:**

ALINE Biosciences LLC

175 KK New Boston St.

Woburn, Massachusetts 01801 U.S.A.

Tel: 1-888-987-3677

**E-mail:** info@alinebiosciences.com

**Emergency information:** 1-888-987-3677/ 24h

## 2 Hazards Identification

**Emergency Overview**

Brown; Clear with brown precipitate; Liquid; Odorless

Nonflammable aqueous solution

**Does not meet EU, OSHA or WHMIS criteria for hazardous materials.**

**Physical Hazards-** None.

**Potential Health Effects Summary-** This product does not meet EU, OSHA OR WHMIS criteria for hazardous materials, however contact may cause irritation of skin, eyes, or respiratory system. See Section 11 Toxicological Information for more detailed health information.

**Potential Environmental Effects-** Not available

**Product Hazard Classifications Meets Hazardous Criteria for Preparation/Mixture**

**EU:** Not applicable

**WHMIS:** Not applicable

**US OSHA:** Not applicable

## 3 Composition and Information on Ingredients

**Hazardous Ingredients:** None

## 4 First Aid Measures

**Inhalation** If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

**Eye Contact** If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occurs, obtain medical attention.

**Skin Contact** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If pain or irritation occurs, obtain medical attention.

**Ingestion** If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

## 5 Fire Fighting Measures

**Flammable Properties** Nonflammable aqueous solution.

**Extinguishing Media** Use extinguishing media suitable for surrounding fire.

**Special Fire and Explosion Hazards-** No special hazards determined.

**Hazardous Combustion Products-** No combustion products posing significant hazards are expected from this product (a dilute aqueous solution).

**Protective Equipment for Firefighters-** Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

## 6 Accidental Release Measures

**Personal Precautions** Use good laboratory procedures; avoid eye and skin contact.

**Spill and Leak Procedures-** Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

**Environmental Precautions-** Contain spill to prevent migration.

## 7 Handling and Storage

**Handling Precautions** Use good laboratory procedures; avoid eye and skin contact.

**Recommended Storage Conditions-** To maintain efficacy, store according to the instructions in the product labeling. Keep away from incompatible material (see Section 10).

## 8 Exposure Controls and Personal Protection

### Exposure Limits

**US OSHA:** None established

**ACGIH:** None established

**DFG MAK:** None established

**NIOSH** None established

**Japan** None established

**Engineering Controls** No special engineering controls are required. Use with good general ventilation.

**Respiratory Protection** Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

**Eye Protection** Safety glasses or chemical goggles should be worn to prevent eye contact.

Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

**Skin Protection** Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.

Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.

## 9 Physical and Chemical Properties

### General Information

**Physical State** Liquid

**Color** Brown  
**Transparency** Clear with brown precipitate  
**Odor** Odorless  
**Odor Threshold** Not applicable  
**pH** 8.0 - 8.4

**Change in condition**

**Freezing Point** Not available  
**Boiling Point** Not available  
**Flash Point** Not applicable  
**Evaporation Rate** Not available  
**Flammability (Solid, Gas)** Not applicable  
**Flammable Limits** Not available  
**Vapor Pressure** Not available  
**Vapor Density** Not available  
**Specific Gravity**  $\approx 1.127$   
**Solubility- Water** Miscible  
**Organic** Not available  
**Coefficient of Water/Oil Distribution-** Not available  
**Autoignition Temp.** Not applicable  
**Decomposition Temperature** Not available  
**Percent Volatiles** Not applicable

**10 Stability and Reactivity**

**Stability** Stable in closed containers under normal temperatures and pressures.

**Hazardous Incompatibilities** Strong acids, Strong bases, Strong oxidizers, Metals and metallic compounds.

**Hazardous Decomposition Products**

No decomposition products posing significant hazards would be expected from this product (a dilute aqueous solution).

**Conditions to Avoid** contact with incompatible materials.

**11 Toxicological Information****Toxicity Data**

**for Hazardous Ingredients** Not applicable

**Primary Routes of Exposure-** The most likely routes of exposure are skin and eye contact. Inhalation may occur if mists are formed in product use.

**Potential Effects of Acute Exposure-** None identified.

**Potential Effects of Chronic Exposure-** None identified.

**Symptoms of Overexposure** None identified.

**Carcinogenicity** No ingredients in this product are listed as carcinogens by:

ACGIH (American Conference of Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA or 67/548/EEC. (Occupational Safety & Health Administration)

**Other Effects** None identified.

**Conditions Aggravated by Exposure-** None identified.

**12 Ecological Information**

**Ecotoxicity** No information available.

**Biodegradability** No information available.

**Bioaccumulation** No information available.  
**Mobility** No information available.  
**Other Adverse Effects** No information available.

### 13 Disposal Considerations

**Waste Disposal** Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

### 14 Transport Information

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

### 15 Regulatory Information

#### US Federal and State Regulations

**SARA 313** Not applicable

**CERCLA RG's,**

**40 CFR 302.4**

Not applicable

**California Proposition 65** No ingredients listed.

**Massachusetts MSL** Not applicable

**New Jersey Dept. of Health RTK List-** Not applicable

**Pennsylvania RTK** Not applicable

**EU Labeling Classification-** Preparation not classified.

**Canada-** This product does not meet WHMIS criteria for hazardous materials.

**PIN:** Not applicable

**Ingredients on Ingredient Disclosure List:** Not applicable

**Ingredients with unknown toxicological properties:** None

### 16 Other Information

#### ALINE Bioscience Safety Rating

Code

0=none

1=slight

2=caution

3=severe

**Flammability (Section V): 0**

**Health (Section XI): 1**

**Reactivity with Water (Section X): 0**

**Contact (Section VIII): 1**

**Revision Changes** Revised manufacturer's address in Section 1

This MSDS complies with EC Regulation 1907/2006 (REACH)

For further information, please contact your local ALINE BIOSCIENCES representatives.

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